

## **CLAIMS**

1. Demountable reel (1), of those that comprise a hollow cylindrical central body (2), divided in two equal semi-cylindrical halves (3) by a diametral plane, and two essentially flat discs (4), of greater diameter and equipped with central openings (14), arranged on the bases of the hollow cylindrical central body, characterized in that the semi-cylindrical halves are equipped, on the rims of their bases (5), with flanges (6) projected transversally inwards or outwards, and in that each disc is equipped, on its inner face (8), with an annular groove (7), which defines a discontinuous guide rail (9) adapted to removably receive the flanges of one of the ends of the semi-cylindrical halves of the hollow cylindrical central body, each one of the segments of the guide rail and/or the flanges of the semi-cylindrical halves have a progressively variable section, causing, when the hollow cylindrical central body is rotated in relation to the discs in a movement similar to winding, that the clearance between the flanges and the walls of the guide rail which houses them is progressively reduced until it disappears, all the flanges being simultaneously wedged to the guide rail, just having to rotate said central body in the opposite direction to be able to separate the discs.
2. Demountable reel (1) according to claim 1, characterized in that the section of each one of the flanges (6) of the semi-cylindrical halves is homogenous and in that the section of each segment of the guide rails (9) of the disc (4) progressively decreases.
3. Demountable reel (1) according to claim 1, characterized in that the section of the guide rails (9) is homogenous and in that the section of each one of the flanges (6) of the semi-cylindrical halves progressively increases.
4. Demountable reel (1) according to claim 1, characterized in that each one of the flanges (6) of the semi-cylindrical halves progressively increases and in that the section of each segment of the guide rails (9) of the discs (4) progressively decreases.
5. Demountable reel (1) according to claims 1, 2 or 4, characterized in that the interior diameter (10) of the annular groove (7) is progressively greater

in those segments (11) coincident with the segments of the guide rail (9), which produces a progressive reduction in the section of the guide rail.

5        6.        Demountable reel (1) according to the preceding claims, characterized in that the flanges (6) of the semi-cylindrical halves (3) of the hollow cylindrical central body, have an essentially triangular section and because the guide rail (9) has an essentially tapered section corresponding to that of the flanges.

10       7.        Demountable reel (1) according to the preceding claims, characterized in that the semi-cylindrical halves (3) are equipped at their circumferential ends (5) with quadrangular indentations (12), arranged between the different segments of the flanges (6) of the semi-cylindrical halves, and of a rail (13) on its surface, arranged adjacent to the flanges.